

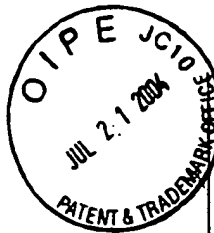
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PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

SHEET OF

Complete if Known

Application Number: 10/645,426

Filing Date: 8/21/03

First Named Inventor: M. Seul, et al.

Group Art Unit:

Examiner Name:

Attorney Docket Number: **LEAPS C11**

Examiner Initials	U.S. Documents		U.S. Patent Document Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Number			
PTD	US 3,571,614 A		Carreira	04/13/1997
PTM	US 5,510,270 A		Fodor, et al.	04/23/1996

FOREIGN DOCUMENTS

Examiner Initials	Foreign Patent Documents			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation
	Office	Number	Kind Code (if known)			
PTD		WO 96 07917 A		Nanogen	03/14/1996	
I		WO 91 19023 A		Savin Corp.	12/12/1991	
PTM		GB 2 058 379 A		AGFA GEVAERT	04/08/1981	

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume- issue number(s).	T ₂
PTM		YEH, S.R., et al. "Assembly of ordered colloidal aggregates by electric-field-induced fluid flow". <i>Nature</i> , Mar 6, 1997: 57-59. Vol 386, No 6620	
Examiner Signature			Date Considered 4/15/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) SHEET <input type="text"/> OF <input type="text"/>	Complete if Known	
	Application Number:	
	Filing Date:	
	First Named Inventor: M. S. ul, t al.	
	Group Art Unit:	
	Examiner Name:	
Attorney Docket Number:		

Examiner Initials	U.S. Documents		U.S. Patent Document Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Number			
PMD	6,083,763		Balch	7/4/2000
	6,172,218 B1		Brenner	1/9/2001
	5,415,835		Brueck, et al.	5/16/1995
	6,429,027 B1		Chee et al.	8/6/2002
	5,532,128		Eggers et al.	7/2/1996
	5,516,635		Ekins et al.	5/14/1996
	5,961,923		Nova et al.	10/5/1999
PTM	5,770,358		Dower	7/23/1998

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PTM		WO 00/04372		Anstyn, et al.	1/27/2000
		WO 99/60170		Boier, et al.	11/25/1999
		WO 98/40726		Walt, et al.	2/8/2000
		WO 00/03004		Fechter, et al.	1/20/2000
		WO 00/75373		Walt, et al.	12/14/2000

Examiner Signature		Date Considered	4/15/05
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FORM PTO-1449

INFORMATION DISCLOSURE CITATION

Attorney Docket:

Serial No.:

Applicant:

Seul et al.

Filing Date:

10/17/00

Group Art Unit:

1

U.S. PATENT DOCUMENTS

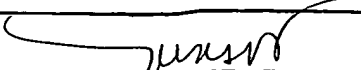
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PDD	5,281,370	01/25/94	Asher et al.			
	5,516,635	05/15/96	Ekins et al.			
	5,518,883	05/21/96	Soini			
	5,415,835	05/16/95	Brueck			
	5,604,097	02/18/97	Brenner			
	5,800,992	09/01/98	Fodor			
	6,023,540	02/08/00	Walt et al.			
	6,327,410	12/04/01	Walt et al.			
	6,266,459	07/24/01	Walt et al.			
	6,429,027	08/06/02	Chee et al.			

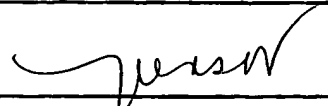
FOREIGN PATENT DOCUMENTS

Examiner Initial	Patent Number	Publication Date	Country	Class	Sub-Class	Translation
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	WO 96/03212	02/08/96	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No
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	WO 93/06121	04/01/93	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, etc.)

Materials from Freedom of Information Act pertaining to David R. Walt

Examiner 	Date Considered 4/15/05
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.: _____		SERIAL NO.: _____								
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT(S): SEUL, Michael										
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U.S. PATENT DOCUMENTS														
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		AA	4	4	8	8	0	5						2
PTD	AA	4	4	8	8	0	5	2	2/12/85	Fuhrwyler	422	52	8/30/82	
	AB	4	8	4	7	5	4	4	3/3/87	Nicoß et al.	436	518	6/25/85	
	AC	4	8	2	2	7	4	8	4/18/88	Walt	436	528	6/25/86	
	AD	4	8	8	4	3	7	3	2/18/91	Stevrianopoulos et al.	435	6	7/20/89	
	AE	5	0	0	2	8	6	7	3/26/91	Macevici	435	6	10/24/88	
	AF	5	0	2	8	5	4	5	7/2/91	Soini	436	501	6/9/88	
	AG	5	1	0	5	3	0	5	4/14/92	Betzig	359	368	1/10/91	
	AH	5	1	1	4	8	6	4	5/19/92	Walt	436	528	9/19/89	
	AI	5	1	3	2	2	4	2	7/21/92	Cheung	436	501	11/13/89	
	AJ	5	1	3	2	0	9	7	7/21/92	Van Deusen et al.	422	82.09	9/4/90	
PTD	AK	5	1	4	3	8	5	3	8/1/92	Walt	438	501	2/2/89	
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	AH	0	7	2	3	1	4	8	7/24/88	EP	G01N	21/64		X
	AD	8	8	1	1	1	0	1	11/16/89	PCT	G01N	33/546		X
	AP	9	3	0	2	3	6	0	2/4/93	PCT	G01N	33/536		X
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
PTD	AO	Peterson, et al. "Fiber optic pH probe for physiological use," Anal. Chem. Vol. 52, 884-869 (1980)												
	AR	Peterson, et al. "Fiber-Optic Sensors for Biomedical Applications," Science, 13: 123-127 (1984).												
	AS	Fuh, et al., "Single Fibre Optic Fluorescence pH Probe," Analyst, 112: 1159-1163 (1987).												
EXAMINER 										DATE CONSIDERED 4/15/05				
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.														

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.: _____		SERIAL NO.: _____	
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT(S): SEUL, Michael			
				FILING DATE: _____		GROUP: _____	

U.S. PATENT DOCUMENTS														
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PTD	BA	5	1	8	4	3	0	0	3/16/93	Cheung	427	213.31	1/18/89	
	BB	5	2	4	4	8	1	3	8/14/93	Walt et al.	436	172	4/20/92	
	BC	5	2	4	4	8	3	6	9/14/93	Walt et al.	422	82.07	1/25/91	
	BD	5	2	5	0	2	6	4	10/5/93	Walt et al.	422	82.07	12/21/92	
	BE	5	2	5	2	4	9	4	10/12/93	Walt	438	528	3/30/92	
	BF	5	2	5	4	4	7	7	10/19/93	Walt	438	172	9/19/91	
	BG	5	2	8	8	7	4	1	3/28/94	Walt et al.	250	227.23	1/13/93	
	BH	5	3	0	8	8	1	8	4/26/94	Prober et al.	435	8	1/16/92	
	BI	5	3	2	0	8	1	4	6/14/94	Walt et al.	422	82.07	11/25/92	
	BJ	5	3	8	2	8	5	3	11/8/94	Carr et al.	436	165	5/6/92	
PTD	BK	5	4	0	5	7	8	4	4/11/95	Van Hoegaerden	438	523	2/25/93	

FOREIGN PATENT DOCUMENTS															
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	BM	8	3	2	4	5	1	7	12/9/93	PCT	C07K		x		
	BN	9	7	1	4	0	2	8	4/17/87	PCT	G01N	15/10	x		
	BO														
	BP														

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
PTD	BO	Barnard, et al., "A fibre-optic chemical sensor with discrete sensing sites," Nature, vol. 353: 338-340 (1991).
I	BR	Campion, et al., "Colored and Fluorescent Solid Supports," Innovation and Perspectives in Solid-Phase Synthesis, Ed: E. Birmingham (Mayflower, London), pp. 469-472 (1994).
PTD	BS	Pope, "Fiber optic chemical microsensors employing optically active silica microspheres," SPIE, vol. 2388: 245-256 (1995).

EXAMINER 	DATE CONSIDERED 4/15/05
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449
(REV. 7-80)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

APPLICANT(S): GEUL, Michael

SERIAL NO.:

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

FILING DATE: October 17, 1995

GROUP:

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PTD	CA 5 4 8 0 7 2 3	1/3/88	Kahner et al.	428	441	5/17/94
	CB 5 8 1 4 5 2 4	8/28/88	Walt et al.	438	518	12/14/95
	CC 5 4 8 8 8 8 7	3/8/88	Page	250	227.21	1/2/94
	CD 5 9 1 2 4 8 0	4/30/88	Walt et al.	438	171	8/11/94
	CE 5 8 8 6 3 2 4	10/15/88	Birn et al.	435	8	4/13/94
	CF 5 8 8 7 8 2 7	10/22/88	Lehman	438	518	1/15/93
	CG 5 8 3 3 7 2 4	8/27/87	Kang et al.	358	445	8/23/95
	CH 5 8 3 3 8 7 7	8/27/87	Walt et al.	385	118	1/12/95
	CI 5 8 5 0 4 8 8	7/22/87	Lane et al.	530	334	6/19/91
	CJ 5 8 8 2 0 5 8	7/23/87	Margul	428	403	1/25/95
PTD	CK 5 8 7 4 8 9 8	10/7/87	Zarling et al.	435	7.92	3/30/97

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
CL					
CM					
CN					
CO					
CP					

OTHER PRIOR ART: (See Remarks)

Person

4/15/05

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.: SERIAL NO.:

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): SEUL, MichaelFILING DATE: October 17, 2000GROUP: 1

U.S. PATENT DOCUMENTS

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<u>PTO</u>	DA	5	8	8	0	8	9	4	11/25/97	Pinkel et al.	422	68.1	5/23/95
	DB	5	7	0	0	8	9	7	12/23/97	Klainer et al.	528	15	5/30/95
	DC	5	7	7	9	9	7	6	7/14/98	Leland et al.	422	52	6/5/95
	DD	5	9	3	9	0	2	1	8/17/99	Hansen et al.	422	55	1/23/97
	DE	5	8	8	1	9	2	3	10/5/99	Novo et al.	422	88.1	8/30/98
	DF	5	8	8	5	4	5	2	10/12/98	Kovacs	438	149	7/9/98
	DG	8	0	4	8	8	9	0	4/11/00	Heller et al.	435	8	5/14/97
	DH	6	0	9	0	5	4	5	7/18/00	Wohlstadter et al.	435	8	3/6/97
	DI	8	0	9	0	9	1	2	7/18/00	Lebl et al.	530	300	11/23/98
<u>PTO</u>	DJ	8	2	0	0	7	3	7	3/13/01	Waft et al.	430	320	8/24/95
	DK												

FOREIGN PATENT DOCUMENTS

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	DN													
	DO													
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

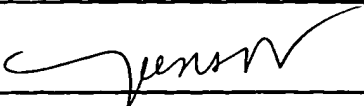
<u>PTO</u>	DD	Egner, et al., "Tagging in combinatorial chemistry: the use of coloured and fluorescent beads," Chem. Commun. pp. 735-738 (1997)
	DR	Fulton, et al., "Advanced multiplexed analysis with the FlowMatrix system," Clinical Chemistry, vol. 43:9, pp. 1748-1756 (1997).
<u>PTO</u>	DS	Scott et al., "Properties of fluorophores on solid phase resins; implications for screening, encoding and reaction monitoring," Bioorganic & Medicinal Chemistry Letters, 7:12, pp. 1567-1572 (1997).

EXAMINER

DATE CONSIDERED

4/15/05

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FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.: 2000-000000		SERIAL NO.: 000000	
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT(S): SEUL, Michael			
				FILING DATE: 2000		GROUP: 1	
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	EL						
	EM						
	EN						
	EO						
	EP						
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
PTD	EQ	Healey et al., "Fiberoptic DNA sensor array capable of detecting point mutations," Analytical Biochemistry, vol. 251, pp. 270-279 (1997).					
PTD	ER	"Microsphere Selection Guide," Bangs Laboratories, Inc. (Fisher, IN) (September 1998)					
	ES						
EXAMINER 				DATE CONSIDERED 4/15/05			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.: 4

SERIAL NO.: 09552-010

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): SEUL, Michael

FILING DATE: 7

GROUP: 100

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PJD	AA	4	7	1	7	6	5	5	01/05/88	Fuhrwyler	435	7	10/15/84
	AB	5	5	7	3	9	0	8	11/12/88	Singer et al.	435	8	05/20/94
	AC	5	5	8	5	0	6	8	12/17/88	Zanruechi et al.	422	100	11/10/94
	AD	5	5	8	3	8	3	8	01/14/97	Zanruechi et al.	435	6	05/31/95
	AE	5	7	2	3	2	1	8	03/03/98	Haugland et al.	428	402	06/07/95
	AF	5	7	4	4	3	0	5	04/28/88	Fodor et al.	435	8	06/06/95
	AG	5	8	0	7	7	5	5	08/15/88	Elkins	438	518	05/23/95
	AH	5	8	3	7	5	5	1	11/17/88	Elkins	438	518	12/23/94
	AI	5	8	7	4	2	1	8	02/23/88	Reve et al.	435	8	04/09/96
	AJ	5	8	8	8	8	3	6	11/23/88	Dunlay et al.	435	7.2	02/27/97
PJD	AK	8	0	2	3	5	4	0	02/08/00	Walt et al.	385	12	03/14/97

FOREIGN PATENT DOCUMENTS

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PJD	AL	9	5	1	2	8	0	8	05/11/95	PCT	G01N	21/00		X
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	AN	9	7	4	0	3	8	3	10/30/97	PCT	G01N	33/543		X
PJD	AO	9	8	0	6	0	0	7	02/12/98	PCT	G03F	7/00		X
	AP	9	8	5	3	3	0	0	11/28/98	PCT	G01N	21/00		X

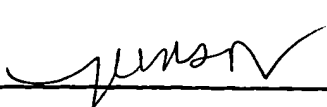
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

PJD	AR	Michelette et al., <i>langmuir</i> , vol. 11, 3333-3338 (1995)
PJD	AS	Nagayama et al., <i>Phase Transitions</i> , vol. 45, 185-203 (1993)
PJD	AT	

EXAMINER

DATE CONSIDERED

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FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.:		SERIAL NO.:	
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT(S): SEUL, Michael			
				FILING DATE:		GROUP:	
U.S. PATENT DOCUMENTS							
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PTO	AA	3 8 8 8 5 2 5	12/21/78	Gipko	350	160	08/21/75
	AB	4 0 7 5 0 1 3	02/21/78	Ward et al.	86	1.5	09/13/76
	AC	4 4 5 6 5 1 3	06/26/84	Kawai et al.	204	180	08/25/82
	AD	4 5 7 5 4 0 7	03/11/88	Oiler	204	67	10/24/84
	AE	4 5 8 1 5 5 0	05/27/88	Hofman et al.	435	4	04/05/84
	AF	5 4 4 4 3 3 0	08/22/95	Leventis et al.	313	506	02/18/93
	AG	5 5 8 7 1 2 8	12/24/96	Wilding et al.	422	50	11/14/94
	AH	5 4 9 8 3 9 2	03/12/96	Wilding et al.	422	68.1	09/19/94
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	AM						
	AN						
	AO						
	AP						
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
PTO PTO PTO	AR	Yeh, et al., "Assembly of ordered colloidal aggregates by electric-field-induced fluid flow," <i>Nature</i> , vol. 386.6: 57-59 (1997)					
	AS	Giersig et al., "Formation of ordered two-dimensional gold colloid lattices by electrophoretic deposition," <i>J. Phys. Chem.</i> , vol. 87: 6334-6336					
	AT	Seul et al., "Scale transformation of magnetic bubble arrays: coupling of topological disorder and polydispersity," <i>Science</i> , vol. 262: 558-560 (1993)					
EXAMINER				DATE CONSIDERED			
				4/15/05			
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APPLICANT(S): SEUL, Michael

FILING DATE: October 17, 2000

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA						
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UNCLASSIFIED DOCUMENTS													
		DOCUMENT NUMBER						DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
												YES	NO
	BG												
	BH												
	BI												

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

PNP	BJ	Trau et al. "Field-Induced Layering of Colloidal Crystals," <i>Science</i> , vol. 272: 708-709 (1996)
	BK	Seul et al. "Domain Shapes and Patterns: The Phenomenology of modulated Phases," <i>Science</i> , vol. 267: 478-483 (1995)
	BL	Schena et al. "Quantitative Monitoring of Gene Expression Patterns with a Complementary DNA Microarray," <i>Science</i> , vol. 270: 467-470 (1995)
	BM	Haab et al. "Single Molecule Fluorescence Burst Detection of DNA Fragments Separated by Capillary Electrophoresis," <i>Analytical Chemistry</i> , vol. 67 (No. 18): 3253-3258 (1995)
	BH	Richetti et al., <i>J. Physique Lettr.</i> , vol. 45: L-1137 to L-1143 (1984)
PNP	BO	Sze, "MIS Diode and Charge-Coupled Device," <i>The Physics of Semiconductors</i> , Chapter 7, pp. 362-430 (2 nd Edition) (Wiley Interscience 1981)
	BP	
	BO	
	BR	

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